

August 21, 2007

Mr. Christopher M. Crane
President and CNO
Exelon Nuclear
Exelon Generation Company, LLC
200 Exelon Way
Kennett Square, PA 19348

SUBJECT: LIMERICK GENERATING STATION - NRC EVALUATED EMERGENCY
PREPAREDNESS EXERCISE - INSPECTION REPORT NOS.
05000352/2007502 AND 05000353/2007502

Dear Mr. Crane:

On August 10, 2007, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection of the 2007 evaluated emergency preparedness exercise at your Limerick Generating Station. The enclosed inspection report documents the inspection results, which were discussed on August 10, 2007, with Mr. C. Mudrick and other members of your staff.

The inspection examined activities conducted under your license as they relate to safety and compliance with the Commission's rules and regulations and with the conditions of your license. The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel.

Based on the results of this inspection, no findings of significance were identified.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure and your response (if any) will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Sincerely,

/RA/

James M. Trapp, Chief
Plant Support Branch 1
Division of Reactor Safety

August 21, 2007

Mr. Christopher M. Crane
President and CNO
Exelon Nuclear
Exelon Generation Company, LLC
200 Exelon Way
Kennett Square, PA 19348

SUBJECT: LIMERICK GENERATING STATION - NRC EVALUATED EMERGENCY
PREPAREDNESS EXERCISE - INSPECTION REPORT NOS.
05000352/2007502 AND 05000353/2007502

Dear Mr. Crane:

On August 10, 2007, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection of the 2007 evaluated emergency preparedness exercise at your Limerick Generating Station. The enclosed inspection report documents the inspection results, which were discussed on August 10, 2007, with Mr. C. Mudrick and other members of your staff.

The inspection examined activities conducted under your license as they relate to safety and compliance with the Commission's rules and regulations and with the conditions of your license. The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel.

Based on the results of this inspection, no findings of significance were identified.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure and your response (if any) will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Sincerely,

/RA/

James M. Trapp, Chief
Plant Support Branch 1
Division of Reactor Safety

SUNSI Review Complete: JMT (Reviewer's Initials)

ADAMS ACCESSION NO. ML072330447

DOCUMENT NAME: C:\FileNet\ML072330447.wpd

After declaring this document "An Official Agency Record" it will be released to the Public.

To receive a copy of this document, indicate in the box: "C" = Copy without attachment/enclosure "E" = Copy with attachment/enclosure

"N" = No copy

| | | | | | | |
|--------|---------------|----------------|------------|--|--|--|
| OFFICE | RI/DRS | RI/DRP | RI/DRS | | | |
| NAME | SBarr/REC for | PKrohn/RLF for | JTrapp/JMT | | | |
| DATE | 08/21/07 | 08/21/07 | 08/21/07 | | | |

OFFICIAL RECORD COPY

C. Crane

2

Docket Nos: 50-352, 50-353
License No: NPF-39, NPF-85

Enclosure: Inspection Report Nos. 05000352/2007502 and 05000353/2007502
w/Attachment: Supplemental Information

cc w/encl:

Chief Operating Officer, Exelon Generation Company, LLC
Site Vice President - Limerick Generating Station
Plant Manager, Limerick Generating Station
Regulatory Assurance Manager - Limerick
Senior Vice President - Mid-Atlantic Operations
Senior Vice President - Operations Support
Vice President - Licensing and Regulatory Affairs
Director - Licensing and Regulatory Affairs, Exelon Generation Company, LLC
Manager, Licensing - Limerick Generating Station
Vice President, General Counsel and Secretary
Correspondence Control Desk
Director, Bureau of Radiation Protection, PA Department of Environmental Protection
J. Johnsrud, National Energy Committee, Sierra Club
Chairman, Board of Supervisors of Limerick Township

Distribution w/encl: **(VIA E-MAIL)**

S. Collins, RA
M. Dapas, DRA
M. Cox, RI OEDO
H. Chernoff, NRR
P. Bamford, PM, NRR
J. Hughey, NRR
J. Lubinski, NRR
P. Krohn, DRP
R. Fuhrmeister, DRP
S. Hansell, DRP - Senior Resident Inspector
C. Bickett, DRP - Resident Inspector
L. Pinkham - Resident OA
Region I Docket Room (with concurrences)
ROPreports@nrc.gov (All IRs)
R. Kahler, NSIR/EPD
S. LaVie, NSIR/EPD
M. Gamberoni, DRS
J. Trapp, DRS
S. Barr, DRS

U. S. NUCLEAR REGULATORY COMMISSION REGION I
REGION I

Docket Nos: 50-352, 50-353

License Nos: NPF-39, NPF-85

Report No: 05000352/2007502, 05000353/2007502

Licensee: Exelon Generation Company, LLC

Facility: Limerick Generating Station, Units 1 & 2

Location: Sanatoga, PA 19464

Dates: August 6-10, 2007

Inspectors: S. Barr, Sr. Emergency Preparedness Inspector, DRS, Region I (Lead)
J. Nick, Technical Assistant, DNMS, Region I
C. Bickett, Limerick Resident Inspector, DRP, Region I
R. Cureton, Emergency Preparedness Inspector, DRS, Region I

Approved by: James M. Trapp, Chief
Plant Support Branch 1
Division of Reactor Safety

Enclosure

SUMMARY OF FINDINGS

IR 05000352/2007-502, IR 05000353/2007-502; 08/06/2007 - 08/10/2007; Limerick Generating Station, Units 1 and 2; Exercise Evaluation.

This was an announced inspection conducted by three region-based inspectors, and the Limerick Resident Inspector. No findings of significance were identified. The NRC's program for overseeing the safe operation of commercial nuclear power reactors is described in NUREG-1649, "Reactor Oversight Process," Revision 4, dated December 2006.

Cornerstone: Emergency Preparedness

A. NRC-Identified and Self-Revealing Findings

No findings of significance were identified

B. Licensee-Identified Findings

None.

Report Details

1. REACTOR SAFETY

Cornerstone: Emergency Preparedness (EP)

1EP1 Exercise Evaluation (71114.01 - 1 Sample)

a. Inspection Scope

Prior to the exercise, an in-office review was conducted of the exercise objectives and scenario submitted to the NRC, to determine if the exercise would test major elements of the emergency plan as required by 10 CFR 50.47(b)(14). A description of the evaluation conducted by the NRC during the exercise is described below. Overall, this inspection activity represented the completion of one sample on a biennial cycle.

The exercise evaluation consisted of the following review and assessment:

- The adequacy of Limerick's performance in the biennial full-participation exercise regarding the implementation of the risk-significant planning standards (RSPS) in 10 CFR 50.47 (b)(4), (5), (9), and (10), which are emergency classification, offsite notification, radiological assessment, and protective action recommendations, respectively.
- The overall adequacy of Limerick's emergency response facilities with regard to NUREG-0696, "Functional Criteria for Emergency Response Facilities," and Emergency Plan commitments. The facilities assessed were the control room simulator, the Technical Support Center (TSC), the Operations Support Center (OSC), the Joint Information Center (JIC), and the Emergency Operations Facility (EOF).
- Other performance areas, such as, the emergency response organization's (ERO's) recognition of abnormal plant conditions, command and control, intra- and inter-facility communications, prioritization of mitigation activities, utilization of repair and field monitoring teams, interface with offsite agencies, staffing and procedure adequacy, and the overall implementation of the emergency plan and its implementing procedures.
- Past performance issues from the last NRC exercise report and Limerick's drill reports to determine effectiveness of corrective actions as demonstrated during this exercise to ensure compliance with 10 CFR 50.47(b)(14).
- The post-exercise critiques to evaluate Limerick's self-assessment of its ERO performance during the exercise and to ensure compliance with 10 CFR 50, Appendix E, Paragraph IV.F.2.g.

The inspectors reviewed the documents listed in the attachment to this report.

Enclosure

b. Findings

No findings of significance were identified.

4. OTHER ACTIVITIES (OA)

40A6 Meetings, including Exit

On August 20, 2007, the inspector presented the inspection results to Mr. Christopher Mudrick, Limerick Generating Station Vice President, and other members of the licensee's staff. No proprietary information was provided to the inspectors during this inspection.

ATTACHMENT

SUPPLEMENTAL INFORMATION

KEY POINTS OF CONTACT

Licensee Personnel

R. Newmaster, Limerick Emergency Preparedness Manager
K. Kemper, Exelon Emergency Preparedness Director

LIST OF ITEMS OPENED, CLOSED, AND DISCUSSED

None

LIST OF DOCUMENTS REVIEWED

Section 1EP1: Exercise Evaluation

Limerick Generating Station Emergency Plan, Revision 11
Limerick Generating Station Emergency Plan Implementing Procedures
Limerick Generating Station 2007 Evaluated Exercise Scenario Manual
Limerick Generating Station 2006 Training Drill Series Evaluation Report, December 13, 2006
Limerick Generating Station 2007 Training Drill Series Evaluation Report, July 31, 2007
Limerick Generating Station 2007 Pre-Exercise Evaluation Report, June 26, 2007

LIST OF ACRONYMS

| | |
|-----|---------------------------------|
| CFR | Code of Federal Regulations |
| ERO | Emergency Response Organization |
| EOF | Emergency Operations Facility |
| EP | Emergency Preparedness |
| ERO | Emergency Response Organization |
| JIC | Joint Information Center |
| NRC | Nuclear Regulatory Commission |
| OSC | Operations Support Center |
| TSC | Technical Support Center |